							•								
Name(s) of Risk Team Members: P. Cirnigliaro, A. Etkin, R. Karol, E. Lessard, J. Maraviglia, D. Passarello, A. Piper, R. Savage, J. Scott, M. Van Essendelft			Point Value → Parameter ↓	1				2	3	4		5			
Area/Facility Description Title: Collider-Accelerator Department															
Area/Facility # (if app	Occupancy or Use \leq		≤once/year			<pre><once month<="" pre=""></once></pre>	≤once/week	≤once/shift			>once/shift				
Area/Facility Description: EBIS Area-Wide			Severity	First Aid Only				Iedical Treatment Lost Time		Partial Disability			Death or Permanent Disability		
			Y 11 111 1	Impossible				** 111 1	2 "1	Probable			Multiple		
Approved by: E. Lessard Date: 7/20/04 Rev.#: 1			Likelihood					Unlikely	Possible						
Reason for Revision (if applicable):								Comments:						
FRA number added. V	Uniform hazard nomenclate	ure added.													
				В		Addit			•		Aft		dditio		
Physical Item or Activity	Hazard(s)	Control(s)		Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Contro	Control(s) Added to Reduce Risk			Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Radiation	See <u>Facility-Wide Radiation</u> Evaluation	See Facility-Wide Radiation Evaluation										-			
Electrical	See <u>Facility-Wide Electrical</u> <u>Evaluation</u>	See Facility-Wide Electrical Evaluation													
High voltage electrical systems	See Facility-Wide Electrical Evaluation	See Facility-Wide Electrical Evaluation													
Housekeeping	See <u>Facility-Wide</u> Housekeeping Evaluation	See Facility-Wide Housekeeping Evaluation	on												
Fire	See Facility-Wide Fire Evaluation	See Facility-Wide Fire Evaluation													
ODH	See <u>Facility-Wide ODH</u> Evaluation	See Facility-Wide ODH Evaluation													
Material Handling	See <u>Facility-Wide Material</u> Handling Evaluation	See Facility-Wide Material Handling Eval	uation												
Water	Being struck by an object due to a pressure release	Postings, maintenance, PPE, training, work procedures, Tier 1 inspections	k planning, ASSRC review,	4	3	2	24								
Water	Contact with temperature – extremes that result in such injuries as heat exhaustion, frost bite or burns	Postings, maintenance, PPE, training, work procedures, Tier 1 inspections	k planning, ASSRC review,	4	3	2	24								
Cryogenic	Being struck by an object due to a pressure release	Postings, maintenance, training, work plar Committee /ASSRC/ESRC reviews, proce Tier one inspection, pressure testing	ning, LOTO, Cryogenic Sai dures, PPE, interlock system	fety 4	3	2	24								
Cryogenic	Contact with temperature – extremes that result in such injuries as frost bite or burns	Postings, maintenance, training, work plan Committee /ASSRC/ESRC reviews, proce Tier 1 inspection	dures, PPE, interlock system	ns,	3	2	24								
Pressurized Gas Systems	Being struck by an object due to a pressure release	Postings, PPE, maintenance, training, wor Committee /ASSRC reviews, procedures, Certification/testing of pressure related eq LOTO, C-AD Chief ME reviews, codes ar	interlock systems, uipment, Tier 1 inspections,		3	2	30								

Vacuum	Ear damage	Postings, PPE, maintenance, training, work planning, ASSRC reviews, procedures, Tier 1 inspections, Chief ME reviews, vacuum windows covered during handling, use of industry standards, design reviews	4	4	2	32		
Vacuum	Being struck by an object due to a vacuum failure	Postings, PPE, maintenance, training, work planning, ASSRC reviews, procedures, Tier 1 inspections, Chief ME reviews, vacuum windows covered during handling, , use of industry standards, design reviews	4	4	2	32		
Work at heights	Falls to lower level, such as falling from a ladder or over a railing	Postings, barriers, maintenance, training, work planning, procedures, Tier 1 inspections, approved ladders, anti-slip surfaces	3	4	3	36		
Magnetic Field	Adverse mechanical force exerted on ferromagnetic objects and or to electronic/medical implants	Barriers, warning systems, postings, training, ASSRC review, work planning, procedures, Tier 1 inspections, magnetic safety reviews, medical exams	5	4	2	40		
Chemicals	Exposure	Postings, barriers, PPE, maintenance, training, work planning, procedures, Tier 1 inspections, CMS, MSDS	3	2	2	12		
Chemicals	Fire/explosion	Postings, barriers, PPE, maintenance, training, work planning, procedures, Tier 1 inspections, CMS, MSDS	3	2	2	12		
Chemicals	Reactive metals	Postings, barriers, PPE, maintenance, training, work planning, procedures, Tier 1 inspections, CMS, MSDS	2	2	2	8		
Further Description o	Controls Added to Reduce	e Risk:		•	•			
*Risk:	0 to 20	21 to 40	41-60)			61 to 80	81 or greater

Moderate

Substantial

Intolerable

Negligible

Acceptable